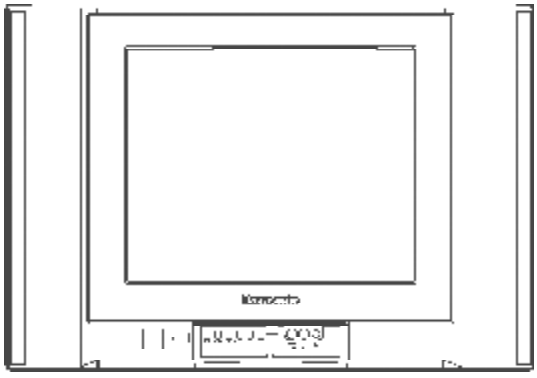
ORDER NO. MTV0401272C3

Service Manual

Colour Television

TC-14Z88AQ

GP3 Chassis



SPECIFICATIONS

Specifications

Power Source :	AC AUTO 110-240V, 50 / 60 Hz
Power Consumption :	61W
Aerial Impedance :	75 Ω unbalanced
	Coaxial type
Receiving System :	17 Systems
Receiving Channels :	
VHF	1-11 PAL B (Australia & N.Zealand)
	1-12 PAL / SECAM D
	1-12 NTSC M JAPAN
	2-12 PAL / SECAM B, G
	2-13 NTSC M U.S.A.
UHF	21-69 PAL G I / SECAM B, G, K1
	28-69 PAL G (Australia)
	13-56 PAL D
	13-52 NTSC M JAPAN
	14-69 NTSC NTSC M U.S.A.
CATV	S1-S41 (Hyper)
Intermediate Frequency :	
Video	38.0 MHz
Sound	31.5 MHz (D, K, K1)
	32 MHz (I)
	32.5 MHz (B, G)

	33.5 MHz (M)
Colour	33.57 MHz (PAL)
	33.6 MHz (SECAM)
	33.75 MHz (SECAM)
	34.42 MHz (NTSC)
Video / Audio Terminals :	
RAV In	Video In 1 Vp-p 75 Ω
	Audio In Approx. 400mVrms
Monitor Out	Video Out 1 Vp-p 75 Ω
	Audio Out Approx. 400mVrms
High Voltage :	24.5kV ± -1.5
	at zero beam current
Picture Tube :	A34KQW42X
	34cm (14 inches)
	Measured diagonally,
	90 ° deflection
Audio Output :	5.0W
Dimensions :	Height : 356.0 mm
	Width : 459.0 mm
	Depth : 379.5 mm
Mass :	10.1 kg (Net Wt.)

Specifications are subject to change without notice. / Mass and dimensions shown are approximate.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. Safety Precautions

1.1. General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing this hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC cord outlet.
5. Potential, as high as 26.0kV is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted byanyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube. After servicing make the following leakagecurrent checks to prevent the customer from being exposed to shock hazards.

1.2. Leakage Current Cold Check

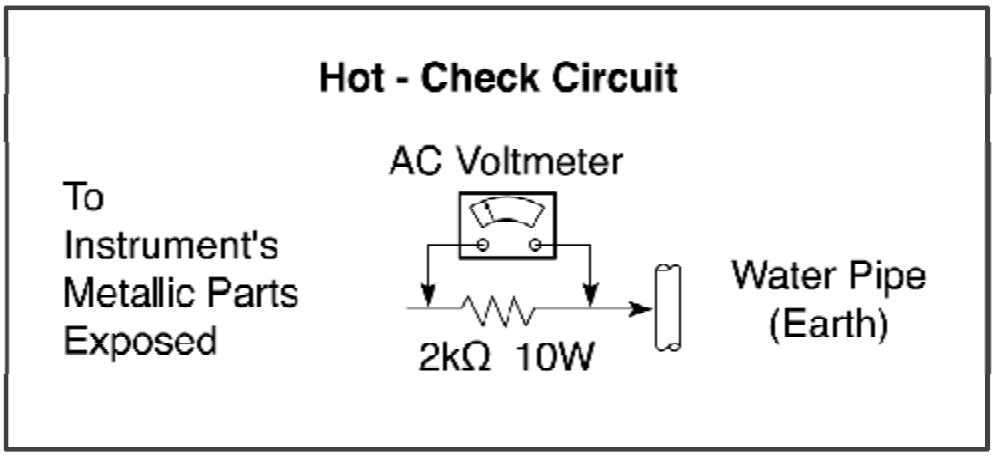
1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the receiver's power switch. / Measure the resistance value, with an ohmmeter, between the jumper AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts, etc.When the exposed metallic part has a return path to the chassis, the reading should be between 4 M Ω and 20 M Ω . When the exposed metal does not have a return path to the chassis, the reading must be infinite.

1.3. Leakage Current Hot Check (Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Check a 2 k Ω non-inductive resistor and an AC/DC current meter, in series with each exposed metallic part on the receiver in turn and an earth such as a water pipe.
   The current from any point should not exceed 0.7 mA peak AC or 2 mA DC. In the case of a measurement being outside of these limits specified, there is a possibility of a shock hazard and the

receiver should be repaired and rechecked before it is returnedto the customer.

Fig. 1



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1.4. X-Radiation

Warning:

The potential sources of X-Radiation in TV set are the EHT section and the picture tube. When using a picture tube test jig for service, ensure that jig is capable of handling 26.0kV without causing X-Radiation.

Note: It is important to use an accurate periodically calibrated high voltage meter.

1. **Set the brightness to minimum.**
2. **Use the remocon to get into Service Mode.**
3. **Measure the EHT. The meter reading should indicate 24.5±-1.5kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.**
4. **To prevent the possibility X-Radiation, it is essential to use the specified picture tube, if service replacement becomes necessary.**

1.5. GP3 Chassis Block Diagram

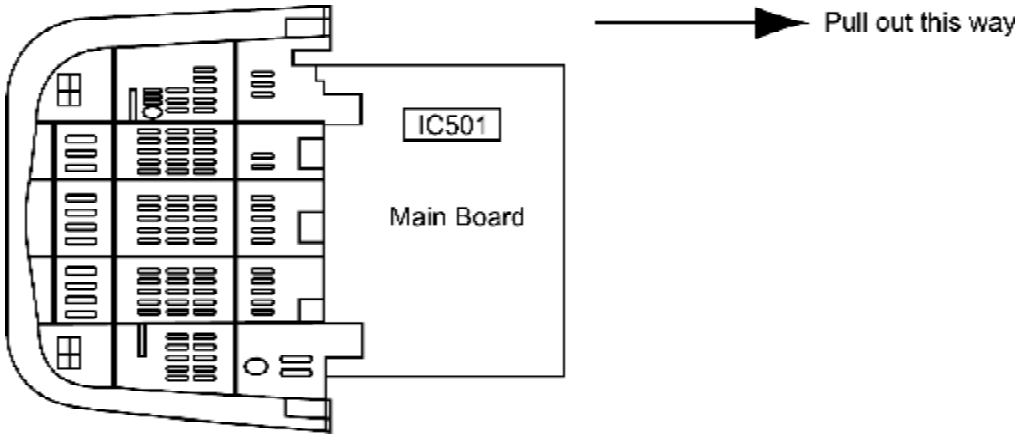
2. Service Hints

2.1. Service Position for E-Board

1. **Remove the back cover.**
2. **Stand the TV set as shown in Fig. 2.**
3. **Remove the A-Board from the TV set by pulling the main board**

out as shown in Figure 2.

Fig. 2



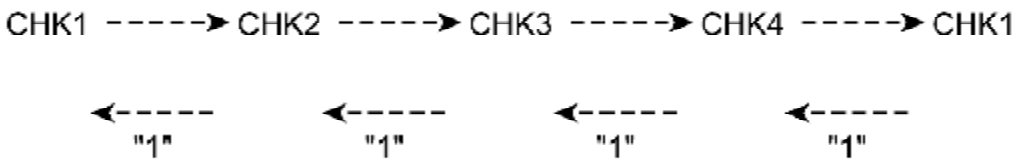
2.2. Factory Mode Adjustment

How to set :

To set the Factory mode, press Volume 0 dac on the TV and Timer Setting 30 min. on the remote control and press Volume (-) Down button on the TV together press recall on the remote control. / CHK should appear on right of TV screen. / To movefrom CHK1 to CHK2 mode, etc. please follow below rotation :

To Set Self-Check :

Press the Volume Down button on TV then press the Off Timer button on remote control.



2.3. Adjustment for White Balance

Preparation:

1. **Receive the white balance pattern and aging should have been performed over 30 minutes.**
2. **Set the picture menu to DYNAMIC NORMAL.**
3. **Degauss the CRT face.**
4. **Fix the CRT colour analyzer receiver unit to CRT face.**

Adjustment of Low Light.

1. **Adjustment Sub Bright, so that Y = 7.0 ± 1.0 nit.**

2. Adjustment R-CUT OFF, so that X = 0.238 ± 0.010 nit.

3. Adjustment G-CUT OFF, so that Y = 0.229 ± 0.010 nit.

Adjustment of High Light

1. Adjustment Sub Bright, so that Y = 155 nit.

2. Adjustment R-Drive, so that X = 0.263 ± 0.010 nit.

3. Adjustment B-Drive, so that Y = 0.273 ± 0.010 nit.

2.4. Adjustment for CRT CUT OFF

Preparation:

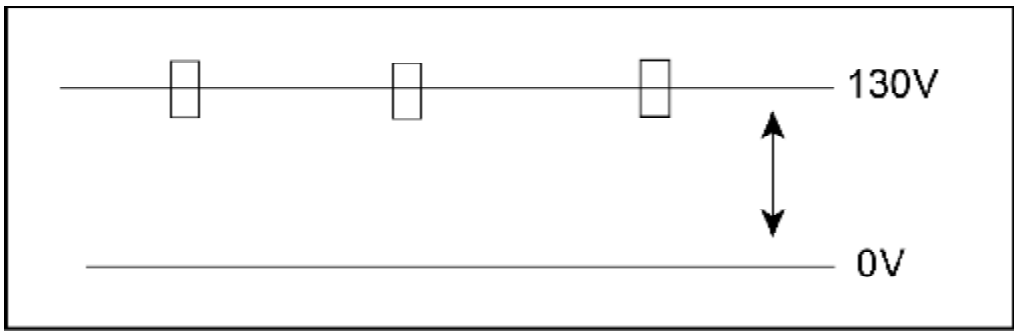
1. Connect the oscilloscope probe to TPL5.

2. Screen VR min.

3. Set the data Sub Bright, Bright.

4. In service Mode at “Bright” dac press [5] in factory mode to enter vertical line and adjust by volume down or up button.

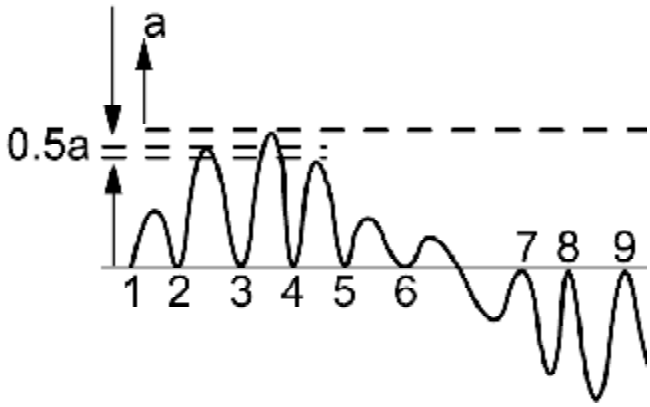
5. Adjust “Screen VR” until 1-H Line appears.



2.5. Adjustment Procedure

Item / Preparation	Adjustment Procedure
+B Voltage 1. Operate the TV set. 2. Set control as follows : Brightness ..... minimum Contrast ..... minimum	Confirm the DC voltage at the indicated test points, a : TPA 10 : 141.0 ± 2.0V TPA 8 : 8 ± 1V TPA 9 : 5 ± 1V TPA 21 : 175 ± 15
RF AGC 1. Receive a colour bar signal at an RF level of 69 +1-2 dBU with 75 Ω loaded. 2. Connect digital multimeter to RF AGC at Tuner.	1. Select “RF AGC” indication in CHK2, on Screen by control at factory mode. 2. Set RF AGC by using remote control Volume (+) or (-) button until voltage AGC at Tuner reaches 2.6 ± TPA 15 (Tuner point). 3. Increase RF signal strength by 2dB, confirm AGC a voltage drop.
High Voltage 1. Receive the crosshatch pattern. 2. Set to 0 Beam. Screen VR ..... minimum Contrast ..... minimum	1. Connect a DC voltage meter to TPA 12 and confirm voltage is 141.0 ± 2.0V. 2. Connect a high frequency voltmeter to heater and c that voltage reads 6.0 ± 0.24 (VRMS). 3. Normalize the brightness and contrast.
Item / Preparation	**Adjustment Procedure**
NTSC TINT COLOUR Connect a short jumper between TPA 10 and TPA 20. Press Main Menu and set system to use AV-NTSC (3.58 MHz). DYNAMIC ..... Normal ChannelCLR Set ..... STD	1. Adjust Sub-Tint so that No. 2, 3 and 4 becomes leve waveform is similar to Fig. 3. 2. Confirm phase at Tint is changes more than ± 30 by control. 3. Confirm that colour level is maximum when colour adjusted to maximum position. Note: Use remote control only when adjusting user Sub-Tint.

Fig. 3



2.6. PAL Colour

1. Receive the PAL B/G studio colour bar pattern and adjust local frequency at the best tuned position.
2. Pic Menu: Dynamic Normal, Confirm Contrast - 63, Sub Contrast - 21.
3. Channel colour set --------- STD
4. “CHK2” and press digit key “5” (AKB OFF) also confirm OSD become blue colour.
5. Connect TPA 10 to TPA 20.
6. Set (A) to 1.9 ± 0.1V by BRT (CHK2) at measurement point TPL 2 Fig. 4.

2.7. Adjustment

1. Connect oscilloscope probe to TPL 2 (G OUT) with 10k Ω series resistor and adjust Contrast so that (B) as in Fig. 4 is 2.60 ± 0.05V.
2. Adjust “Sub Colour” so that waveform as in Fig. 4 (1) 2.3 ± 0.2V.
3. Connect oscilloscope probe to TPL 1 (R OUT) with 10k Ω series resistor and confirm waveform as in Fig. 5 is (2) 2.3 ± 0.2V.
4. Take out jumper TPA 10 and TPA 20.
5. Press digit key “5” (AKB ON) and confirm the OSD become white colour.

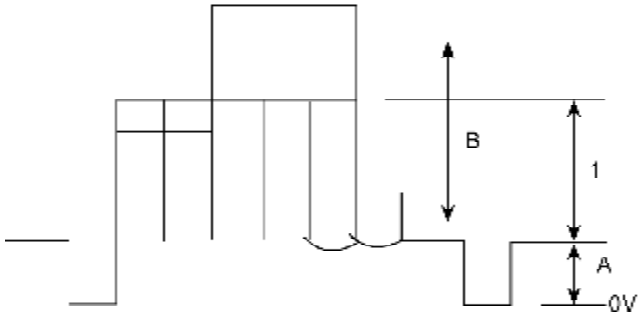


Fig. 4

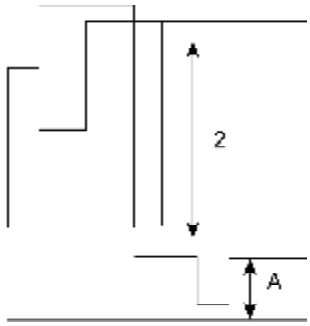


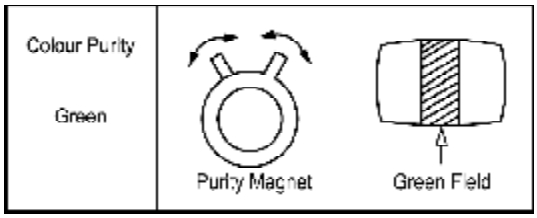
Fig. 5

Before Colour Purity, Convergence and White Balance adjustment are attempted,
V. Height, H. Centre and Focus adjustments must be completed.

Colour Purity

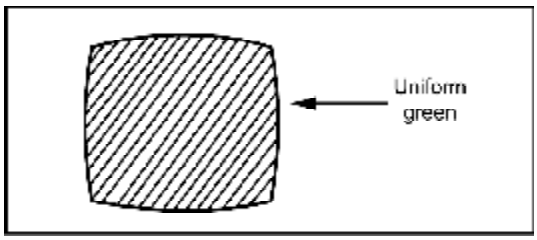
1. **Set the Brightness and Contrast controls to their maximum positions.**
2. **Operate the TV set for 60 minutes.**
3. **Fully degauss the picture tube by using an external degaussing coil.**
4. **Apply a crosshatch pattern signal and adjust the static convergence magnets to the approximately correct position.**
5. **Receive a black and white signal.**
6. **Set the control as follows: / Red.....minimum / Green.....minimum / Blue.....minimum / Press the Shipping button on the remote control twice to select CRT Adjustment Mode to select low light.**
7. **Loosen the clamp screw for the Deflection Yoke A in Fig. 10 and move the Deflection Yoke as close to the purity magnet as possible.**
8. **Adjust the purity magnetic rings so that a vertical green field is obtained at the centre of the screen.**

Fig. 6



9. Slowly push the Deflection Yoke and set it where a uniform green field is obtained.

Fig. 21



10. Re-adjust the Low Light controls to their correct settings and make sure that a uniform white field is obtained.

11. Tighten the clamp screw A in Fig. 10.

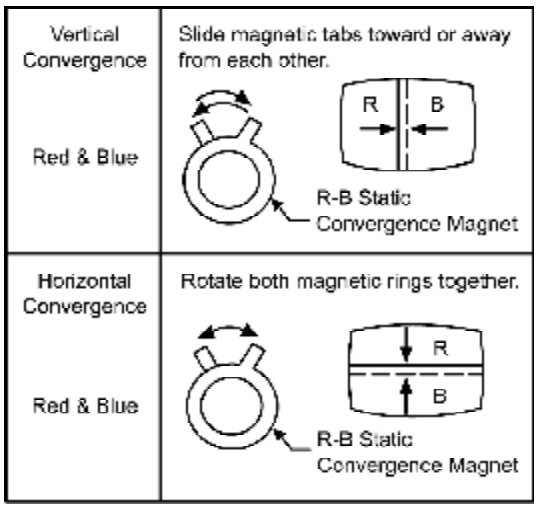
Convergence

1. Apply a crosshatch pattern signal and Normalize Contrast control to the maximum positions.

2. Adjust Brightness until the grey position of the crosshatch pattern just becomes black.

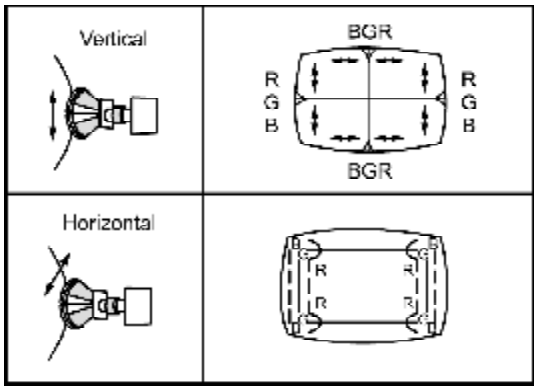
3. Adjust the Red and Blue line at the centre of the screen by rotating the R-B static.

Fig. 8



4. **Adjust Red and Blue with Green line at centre of the screen by rotating (RB)-G static convergence magnetic rings.**
5. **Lock convergence magnets with silicone sealer.**
6. **Remove the DY wedges and slightly tilt the Deflection Yoke vertically and horizontally to obtain the good overall convergence.**

Fig. 9



7. **Fix the Deflection Yoke by reinserting the DY wedges. Refer to Fig. 10.**
8. **If purity error is found, repeat “Colour Purity” adjustment.**

Fig. 10

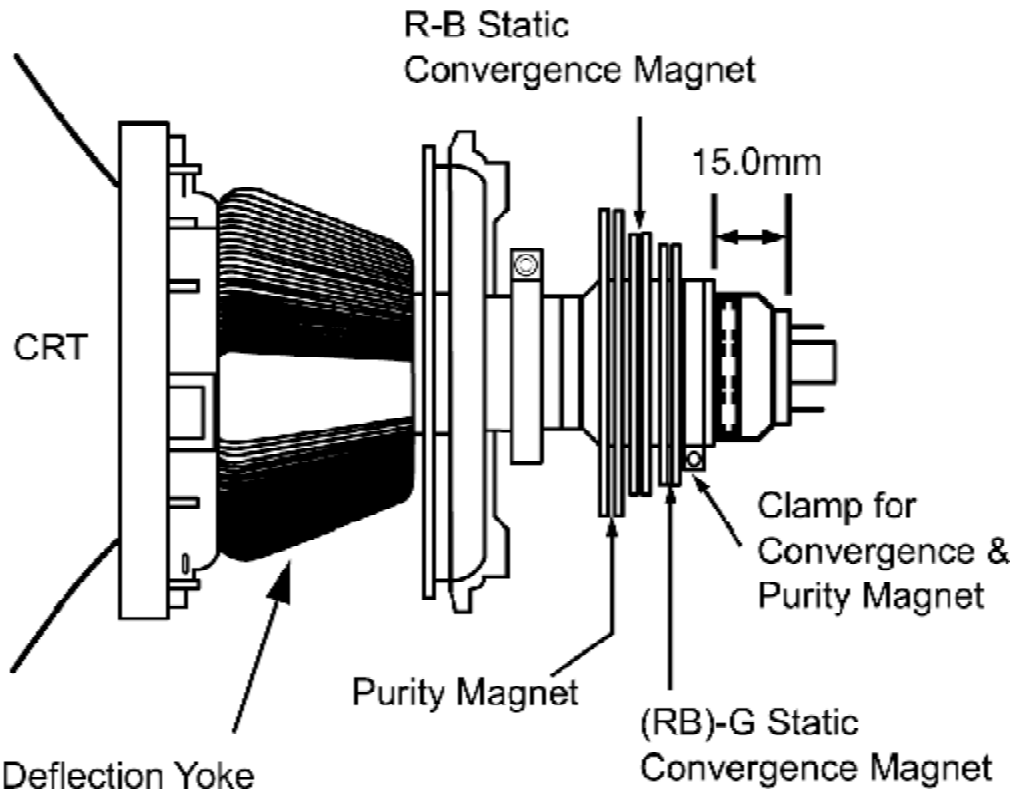
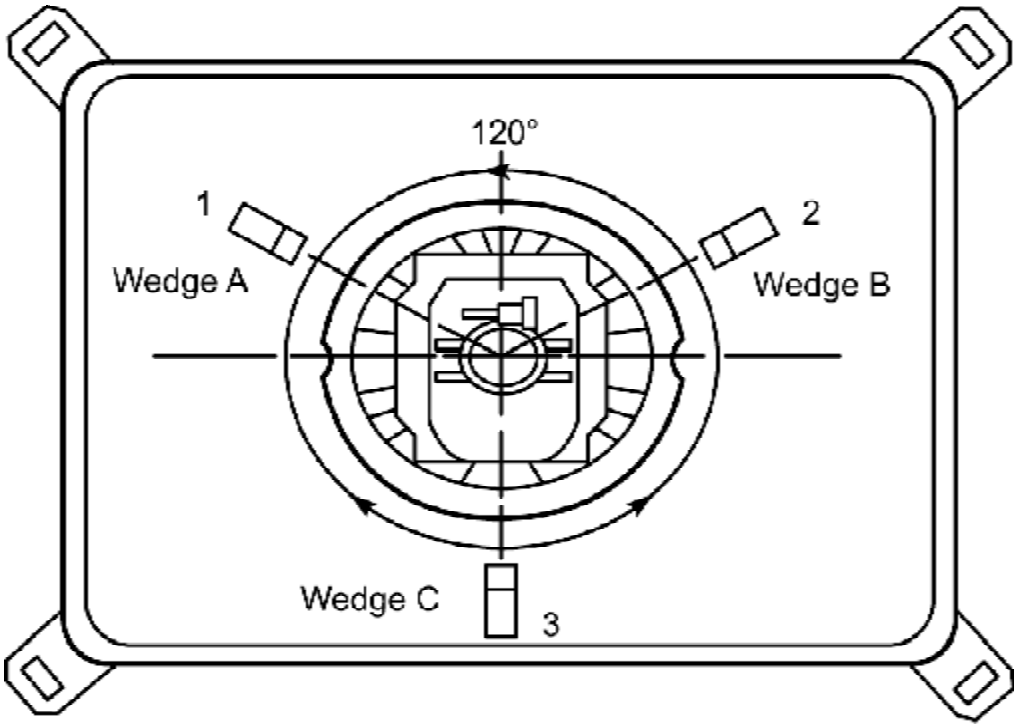


Fig. 11



Notes:

1. **Wedge A, B and C should be inserted following the sequence of 1, 2 and 3 shown in Fig. 11.**
2. **The wedges should be set 120° apart from each other.**
3. **Be certain that three wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. / Otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.**

3. Conductor Views

4. Schematic Diagram

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes :

1. Resistor

   All resistors are carbon 1/4W resistors unless marked as follows :

   Unit of resistance is OHM (Ω) (K = 1 000 M = 1 000 000)

◯	Nonflammable	⊠	Metal Oxide
△	Solid	◎	Metal Film
⊿	Wire Wound	⊗	Fuse

2. Capacitor

   All capacitors are ceramic 50V capacitors unless marked as follows :

   Unit of capacitance is μF unless otherwise noted.

⊗	Temperature Compensation	+ -	Electrolytic
Ⓜ	Polyester	NP	Bipolar
ⓜ	Metalized Polyester	Ⓣ	Dipped Tantalum
⊠	Polypropylene	Ⓩ	Z-Type

3. Coil

   Unit of inductance is μH, unless otherwise noted.

4. Test Point

   ⏚ : Test Point position

5. Earth Symbol

   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)

6. Voltage Measurement
   Voltage is measured using DC voltmeter.
   Conditions of the measurement are the following :
   Power Source..... AC AUTO 110-240V, 50/60Hz
   Receiving Signal.....Colour Bar signal (RF)
   All customer's controls.....Maximum positions

7. Number in red circle indicates waveform number.
   (See waveform pattern table.)

8. When arrow mark (↗) is found, connection is easily found from the direction of arrow.

9. → : Indicates the major signal flow.

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks :

The Power Circuit contains a circuit area which uses a seperate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram.
Take the following precautions :
All circuits, except the Power Circuit are cold.
Precautions :

a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
c. Do not connect an instrument such as an oscilloscope to the hot and cold circuits simultaneously or a fuse may be blown.
   Connect the earth of instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

4.1. A BOARD

4.1.1. A BOARD (1 / 5)

4.1.2. A BOARD (2 / 5)

4.1.3. A BOARD (3 / 5)

4.1.4. A BOARD (4 / 5)

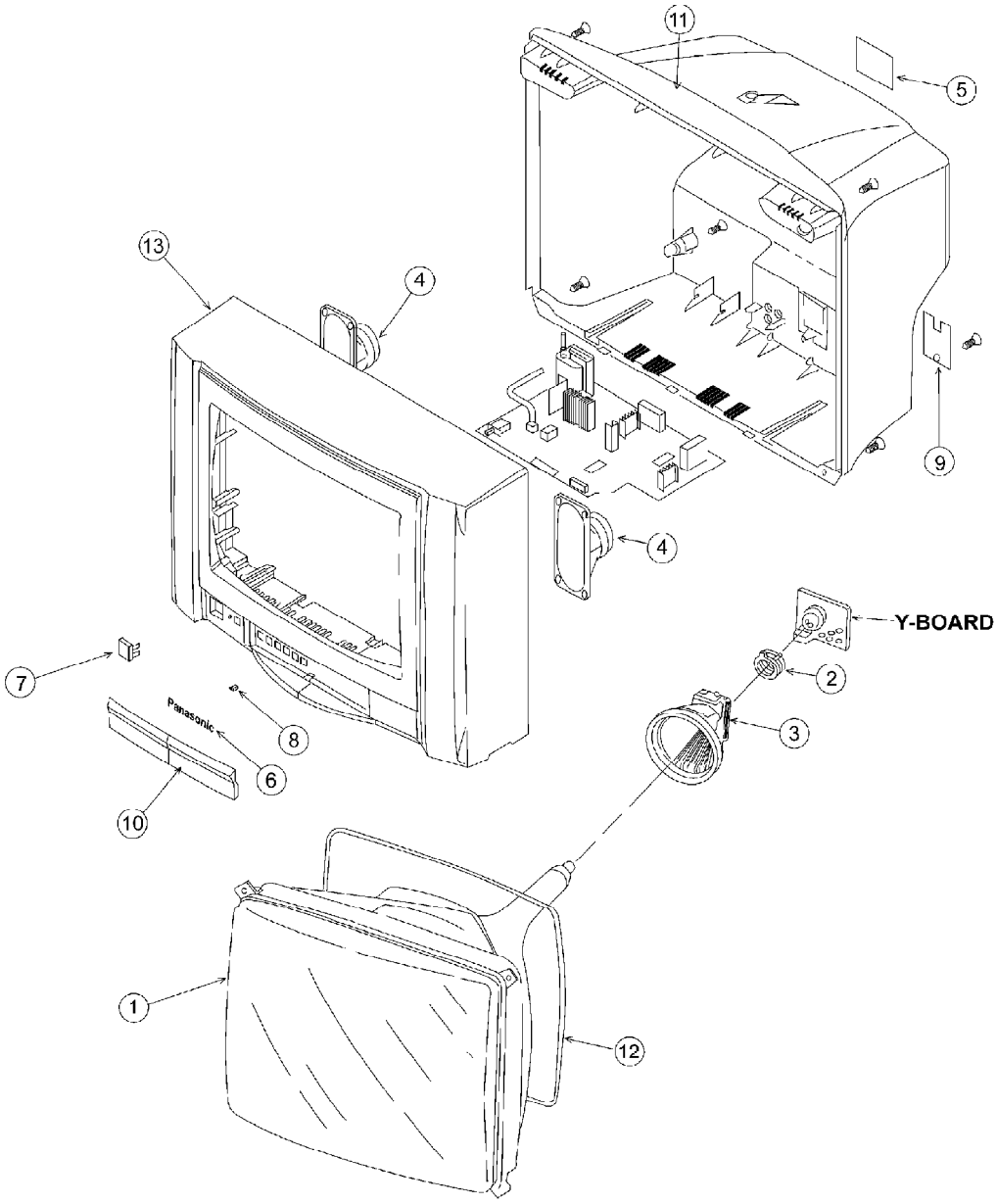
4.1.5. A BOARD (5 / 5)

4.2. L BOARD

4.2.1. L BOARD (1 / 2)

4.2.2. L BOARD (2 / 2)

5. Part Location



6. Replacement Parts List

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use manufacturer's specified parts.

Note: Printed circuit board assembly with 'NLA' is no longer available after production discontinuation of the complete set.

Abbreviation of part name and description

1. Resistor

Example:
ERD25TJ104 C 100kΩ, J, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ± 1%
F : Fuse	G : ± 2%
M : Metal Oxide Metal Film	J : ± 5% K : ± 10%
S : Solid	M : ± 20%
W : Wire Wound	

2. Capacitor

Example:
ECKF1H103ZF C 0.01μF, Z, 50V
Type Allowance

Type	Allowance
C : Carbon	C : ± 0.25pF
E : Electrolytic	D : ± 0.5pF
P : Polyester Polypropylene	F : ± 1pF G : ± 3%
T : Tantalum	J : ± 5%
	K : ± 10%
	L : ± 15%
	M : ± 20%
	P : + 100%, -0%
	Z : + 80%, -20%

6.1. Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
1	A34KQW42X	PICTURE TUBE	⚠
	EUR7717030	REMOTE CONTROL	
2	JH225U-012	CONVERGENCE YOKE	
3	KDY3GCE47F2	DEFLECTION YOKE	⚠
4	TASA0003	SPEAKER	
5	TBM4G1017	MODEL NAME PLATE	⚠
6	TBM4G3008	PANASONIC BADGE	
7	TBX4G89402	POWER BUTTON	
8	TEK6935	DOOR SWITCH	
	TES4G206	COIL SPRING	
	THT4G1004R	CRT SCREW	
	TJB1725100	75-300OHM ADAPTOR	
9	TKP4G11744	AC CORD BRACKET	
10	TKP4G13174	DOOR	
11	TKU4G9530-1	BACK COVER	
12	TLK4G9078X	DEGAUSSING COIL	⚠
	TMM4G502	RUBBER WASHER	
	TMM4G503	RUBBER WEDGE	
NLA	TNP4G269AN	A BOARD	⚠
NLA	TNP4G276AB	L BOARD	⚠
	TPD4G1109	CUSHION (TOP)	
	TPE4G14007	SET COVER	

Ref. No.	Part No.	Part Name & Description	Remarks
	TPE4G14026	SET COVER	
	TQB4G3618	FAN BAG	
	TSM10032-4	PURITY MAGNET	
	TSN63115-4	PURITY MAGNET	
	TSX4G113L1	AC POWER CORD	⚠
13	TXFKY02BG28	CABINET ASSY	
	TXFPC01BA03	CARTON	
	TXFPD02AS04	CUSHION (BOTTOM)	
	TXFSA01AA2S	DIPOLE ANTENNA	
	CAPACITORS		
C001	ECEA1CKA220	E 22UF, 16V	
C002	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C003	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C005	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C006	ECA1AM331B	E 330UF, 10V	
C008	ECEA1HKA010	E 1UF, 50V	
C109	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1101	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1103	ECJ2VC1H331J	C 330PF, J, 50V	
C1104	ECA1CM101B	E 100UF, 16V	
C1105	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C1125	ECEA1CKA100	E 10UF, 16V	
C1130	ECJ2VC1H560J	C 56PF, J, 50V	
C1131	ECA0JM221B	E 220UF, 6.3V	
C1132	ECJ2VC1H560J	C 56PF, J, 50V	
C1140	ECEA1CKA101	E 100UF, 16V	
C1141	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C1142	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C116	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C117	ECJ2VB1H103J	C 0.01UF, 50V	
C120	F1B1H103A013	C 0.01UF, 50V	
C121	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C122	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C136	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
C191	ECUX1H104KBX	C 0.1UF, K, 50V	
C193	ECA1CM100B	E 10UF, 16V	
C2302	ECA1EM471B	E 470UF, 25V	
C2303	ECA1CM100B	E 10UF, 16V	
C2304	ECEA1HKN010	E 1UF, 50V	
C2305	ECEA1HKN010	E 1UF, 50V	
C2306	ECA1HM220B	E 22UF, 50V	
C2380	ECA1CM101B	E 100UF, 16V	
C2381	ECA1CM100B	E 10UF, 16V	
C3020	ECJ2VC1H561K	C 560PF, K, 50V	
C614	ECQV1H104JL	P 0.1UF, J, 50V	
C615	ECQV1H224JL	P 0.22UF, J, 50V	
C618	F1B1H681A130	C 680PF, 50V	
C619	ECQV1H104JL	P 0.1UF, J, 50V	
C620	ECJ2VC1H470J	C 47PF, J, 50V	
C621	ECJ2VB1H471K	C 470PF, K, 50V	
C622	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C623	ECJ2VC1H470J	C 47PF, J, 50V	
C625	ECEA0JN221U	E 220UF, 6.3V	
C628	ECJ2YB1H473K	C 0.047UF, K, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C631	ECJ2VB1H222K	C 2200PF, K, 50V	
C632	ECJ2VB1H392K	C 3900PF, K, 50V	
C633	ECJ2ZF1C105Z	C 1UF, Z, 16V	
C636	ECA1CM101B	E 100UF, 16V	
C640	ECA1CM100B	E 10UF, 16V	
C641	ECJ2VC1H100C	C 10PF, C, 50V	
C670	ECA1CM100B	E 10UF, 16V	
C680	ECJ2YB1H473K	C 0.047UF, K, 50V	
C685	ECJ2VC1H101K	C 100PF, K, 50V	
C686	ECJ2YB1H473K	C 0.047UF, K, 50V	
C687	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C689	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C801	ECQU2A224BN9	P 0.22UF, 250V	⚠
C802	ECQU2A224BN9	P 0.22UF, 250V	⚠
C806	ECKWAE472ZED	C 4700PF, Z,500V	
C807	ECKWAE472ZED	C 4700PF, Z,500V	
C808	ECKWAE472ZED	C 4700PF, Z,500V	
C809	ECKWAE472ZED	C 4700PF, Z,500V	
C810	EETHC2G221H	E 220UF, 400V	
C811	ECQM4473JZ	P 0.047UF, J,400V	
C814	ECQE2A473JF	P 0.047UF, J,250V	
C816	F2A1H330A115	E 33UF, 30V	
C819	ECA1HM010B	E 1UF, 50V	
C821	ECKW3D471KBR	C 470PF, K, 2KV	
C822	ECKW3D331JBR	C 330PF, J, 2KV	
C825	ECQB1H471JF	P 470PF, J, 50V	
C826	F0A1H103A039	C 0.01PF, 50V	
C827	ECQV1H184JM	P 0.18UF, J, 50V	
C830	ECQB1H561JF	P 560PF, J, 50V	
C840	ECKCNA152ME7	C 1500PF, M,	
C841	ECKCNA471MB7	C 470PF, M,	
C842	ECKCNA471MB7	C 470PF, M,	
C844	ECKCNA102MB7	C 1000PF, M,	
C846	ECKCNA102MB7	C 1000PF, M,	
C850	ECJ2VF1H224Z	C 0.22UF, Z, 50V	
C853	F1B2H561A025	C 560PF, 500V	
C854	ECKW3D122KBP	C 1200PF, K, 2KV	
C855	F1B2H331A025	C 330PF, 500V	
C862	ECA1CHG332E	E 3300UF, 16V	
C863	F2A2C221A021	E 220UF, 160V	
C864	EEUFC1C102SB	E 1000UF, 16V	
C875	ECA1EM101B	E 100UF, 25V	
C876	ECA1CM101B	E 100UF, 16V	
C877	ECA1CM101B	E 100UF, 16V	
C879	ECQV1H104JL	P 0.1UF, J, 50V	
C880	ECA1CM102B	E 1000UF, 16V	
C881	ECA1CM101B	E 100UF, 16V	
C882	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C883	ECJ2VF1H104Z	C 0.1UF, Z, 50V	
C971	ECJ2VF1H103Z	C 0.01UF, Z, 50V	
	DIODES		
D002	MTZJ18B	ZENER DIODE	
D003	MTZJ16A	ZENER DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D011	MA152KTX	DIODE	
D1105	MTZJ7.5C	ZENER DIODE	
D1120	MA152KTX	DIODE	
D1130	MTZJ5.6C	ZENER DIODE	
IC451	AN5522	IC	
IC601	TDA9590N48AX	IC	
IC801	C5HABZZ00116	IC, POWER SUPPLY	⚠
IC802	C0EAS0000026	IC	
IC851	C0DAAHF00005	IC, POWER SUPPLY	⚠
IC880	AN77L05	LINEAR IC	
	COILS		
L001	G0C100K00008	COIL	
L002	EXC3BB221H	CHIP BEAD CORE	
L1051	EXCELSA35T	BEAD CORE	
L1101	TALV35VB331K	PEAKING COIL	
L1110	EXCELSA35T	BEAD CORE	
L120	TLTACTR56K	PEAKING COIL	
L125	TALV35VB8R2K	PEAKING COIL	
L181	G0C100K00008	COIL	
L182	TALV35VB6R8K	PEAKING COIL	
L183	TALV35VB5R6K	PEAKING COIL	
L184	TALV35VB6R8K	PEAKING COIL	
L3016	EXCELSA39V	BEAD CORE	
L3137	EXCELSA39V	BEAD CORE	
L352	EXCELSA24T	BEAD CORE	
L401	EXCELSA35T	BEAD CORE	
L502	EXCELSA35T	BEAD CORE	
L510	EXCELSA35T	BEAD CORE	
L511	EXCELSA35T	BEAD CORE	
L550	J0JKB0000038	COIL	
L602	EXCELSA39V	BEAD CORE	
L603	EXCELSA39V	BEAD CORE	
L605	EXCELSA35T	BEAD CORE	
L606	EXCELSA35T	BEAD CORE	
L607	EXCELDR35V	CORE	
L620	TSK1045	BEAD CORE	
L801	ELF21V012S	LINE FILTER	⚠
L820	EXCELSA39E	BEAD CHOKE	
L821	EXCELSA35T	BEAD CORE	
L852	EXCELSA35B	BEAD CORE	
L853	EXCELSA39E	BEAD CHOKE	
L854	EXCELSA35B	BEAD CORE	
L862	TLTACT1R5K	PEAKING COIL	
L871	TLTACT1R5K	PEAKING COIL	
L872	TLTACT1R5K	PEAKING COIL	
L873	EXCELSA39V	BEAD CORE	
	TRANSISTORS		
Q001	B1ABCE000005	TRANSISTOR	
Q101	B1ABCE000005	TRANSISTOR	
Q102	2SC2480TX	TRANSISTOR	
Q103	2SD2114KT	TRANSISTOR	
Q105	B1ABCE000005	TRANSISTOR	
Q1052	B1ABCE000005	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1053	B1ABCE000005	TRANSISTOR	
Q1110	2SB709ATX	TRANSISTOR	
Q180	2SB709ATX	TRANSISTOR	
Q2120	B1ABCE000005	TRANSISTOR	
Q2380	B1ABCE000005	TRANSISTOR	
Q2381	2SB709ATX	TRANSISTOR	
Q3030	B1ABCE000005	TRANSISTOR	
Q3031	B1ABCE000005	TRANSISTOR	
Q3150	B1ABCE000005	TRANSISTOR	
Q3151	2SB709ATX	TRANSISTOR	
Q369	2SB709ATX	TRANSISTOR	
Q501	2SC4212H	TRANSISTOR	
Q520	2SB792ATX	TRANSISTOR	
Q551	2SC5902000LK	TRANSISTOR	
Q580	B1ABCE000005	TRANSISTOR	
Q581	2SB709ATX	TRANSISTOR	
Q601	2SB709ATX	TRANSISTOR	
Q602	B1ABCE000005	TRANSISTOR	
R190	ERJ6GEYJ391	M 390OHM,J,1/10W	
R2120	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R2121	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R2122	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R2302	ERJ6GEYJ153	M 15KOHM,J,1/10W	
R2303	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R2380	ERJ6GEYJ151	M 150OHM,J,1/10W	
R2381	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R2382	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R2383	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R2384	ERJ6GEYJ100	M 10OHM,J,1/10W	
R3015	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3022	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3034	ERJ6GEYJ181	M 180OHM,J,1/10W	
R3035	ERJ6GEYJ560	M 56OHM,J,1/10W	
R3036	ERJ6GEYJ330	M 33OHM,J,1/10W	
R3037	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3048	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3132	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3133	ERJ6GEYJ331	M 330OHM,J,1/10W	
R3142	ERJ6GEYJ184	M 180KOHM,J,1/10W	
R3145	ERJ6GEYJ101	M 100OHM,J,1/10W	
R3150	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R3151	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	
R3152	ERJ6GEYJ681	M 680OHM,J,1/10W	
R3153	ERJ6GEYJ561	M 560OHM,J,1/10W	
R3154	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R351	ERJ6ENF1001	M 1KOHM, 1/10W	
R352	ERJ6ENF1001	M 1KOHM, 1/10W	
R353	ERJ6ENF1001	M 1KOHM, 1/10W	
R354	ERJ6ENF7870	M 787OHM, 1/10W	
R355	ERJ6ENF7870	M 787OHM, 1/10W	
R356	ERJ6ENF7870	M 787OHM, 1/10W	
R363	ERC12GK222	S 2.2KOHM,K, 1/2W	
R364	ERC12GK222	S 2.2KOHM,K, 1/2W	
R365	ERC12GK222	S 2.2KOHM,K, 1/2W	

Ref. No.	Part No.	Part Name & Description	Remarks
R369	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R374	ERQ12AJ181P	F 180OHM,J, 1/2W	
R401	ERDS2TJ104	C 100KOHM,J, 1/4W	
R403	ER0S2CHF2491	M 249OHM,F,1/4W	
R404	D0AE751JA046	C 750OHM,J, 1/4W	
R405	ER0S2CHF2701	M 2.7KOHM,F,1/4W	
R406	ERDS1FJ1R0	C 1OHM,J, 1/2W	
R407	ERG2FJ331H	M 330KOHM,J, 2W	
R408	ERD25V0R00T	C 0OHM, 1/4W	
R411	D0AE202JA046	C 2KOHM,J, 1/4W	
R412	ERDS2TJ332	C 3.3KOHM,J, 1/4W	
R413	D0AE431JA046	C 430KOHM,J, 1/4W	
R415	D0AE431JA046	C 430KOHM,J, 1/4W	
R416	ERDS1TJ1R8	C 1.8OHM,J, 1/2W	
R417	ERDS1TJ1R2	C 1.2OHM,J, 1/2W	
R502	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	
R503	ERJ6GEY0R00	M 0OHM,J,1/10W	
R504	ERG2SJ682E	M 6.8KOHM,J, 2W	
R507	ERJ6GEYJ101	M 100OHM,J,1/10W	
R508	ERG3FJ182H	M 1.8KOHM,J, 3W	
R509	ERG3FJ182H	M 1.8KOHM,J, 3W	
R511	ERJ6ENF1072	F 10.7KOHM,J, 1/10W	
R512	ERJ6ENF1152	M11.5KOHM, 1/10W	
R513	ERQ14AJ100E	F 10OHM,J, 1/4W	
R520	ERQ12AJ6R8E	F 6.8KOHM,J, 1W	
R521	ERQ12AJ6R8E	F 6.8KOHM,J, 1W	
R522	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R523	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R524	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R525	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R553	ERJ6GEYJ223	M 22KOHM,J,1/10W	
	TRANGFORMERS		
T501	ZTFN81001A	FLYBACK TRANS	⚠
T553	ETH19Y210AZ	H DRIVE TRANS	⚠
T801	ETS29AV156AC	SWITCHING TRANS	⚠
	OTHERS		
S1001	EVQ11G05R	SWITCH	
S1002	EVQ11G05R	SWITCH	
S1003	EVQ11G05R	SWITCH	
S1004	EVQ11G05R	SWITCH	
S1005	EVQ11G05R	SWITCH	
S1006	EVQ11G05R	SWITCH	
S801	ESB92DA1B	SWITCH	⚠
TNR001	ENV59DA8G3	TUNER	⚠
X101	K7256M	SAW FILTER	⚠
X180	EFCS5M7MW3	CERAMIC FILTER	
X181	EFCS6R0MW5	CERAMIC FILTER	
X182	EFCS6R5MW5	CERAMIC FILTER	
X183	EFCS4R5MW5	CERAMIC FILTER	
X601	H0D120500006	CRYSTAL OSC	
A12	TJSF29204	CONNECTOR	
A22	TJS3A9650	4P CONNECTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
A5	TJS3A9670	6P CONNECTOR	
A8	TJS3A9670	6P CONNECTOR	
L5	TJS3A9670	6P CONNECTOR	
L8	TJS3A9670	6P CONNECTOR	
L10	K1ZZ00001205	CONNECTOR	
JA1	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA10	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA11	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA12	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA14	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA16	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA17	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA19	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA20	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA22	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA23	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA25	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA26	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA28	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA29	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA3	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA30	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA31	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA32	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA36	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA4	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA5	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA6	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA7	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA8	ERJ6GEY0R00	M 0OHM,J,1/10W	
JA9	ERJ6GEY0R00	M 0OHM,J,1/10W	
JK3002	K4BK06B00014	REAR AV TERMINAL	
JK3102	K4BC08B00012	FRONT AV TERMINAL	
F801	XBA2C40TR0	FUSE 250V 4A	⚠
JK351	330620065	CRT SOCKET	⚠
JS185	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS2302	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS2311	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3120	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3130	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3132	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3133	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3135	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS3141	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS610	ERJ6GEY0R00	M 0OHM,J,1/10W	
JS680	ERJ6GEY0R00	M 0OHM,J,1/10W	
C3021	ECA1CM471B	E 470UF, 16V	
C3037	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3136	ECJ2VB1H103J	C 0.01UF, 50V	
C3137	ECJ2VB1H103J	C 0.01UF, 50V	
C3138	ECA1CM100B	E 10UF, 16V	
C3139	ECA1CM100B	E 10UF, 16V	
C3144	ECJ2VC1H561K	C 560PF, K, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C3151	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3153	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3155	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3157	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3173	ECJ2VF1C105Z	C 1UF, Z, 16V	
C3175	ECJ2VF1C105Z	C 1UF, Z, 16V	
C350	ECA1CM101B	E 100UF, 16V	
C354	ECJ2VC1H330J	C 33PF, J, 50V	
C355	ECJ2VC1H330J	C 33PF, J, 50V	
C356	ECJ2VC1H330J	C 33PF, J, 50V	
C359	ECQM4104KZ	P 0.1UF, K,400V	
C368	ECJ2VC1H122J	C 1200PF, J, 50V	
C370	ECKW3D102KBP	C 1000PF, K, 2KV	
C371	ECEA1CN100U	E 10UF, 16V	
C373	ECA2EM100B	E 10UF, 250V	
C377	ECA1CM101B	E 100UF, 16V	
C403	ECA1HM220B	E 22UF, 50V	
C404	ECQB1103JF	P 0.01UF, J,100V	
C406	ECA1HHG221	E 220UF, 50V	
C408	ECQB1274JF	P 0.27UF, J,100V	
C502	F1B2H821A025	C 820PF, 500V	
C503	F1B2H821A025	C 820PF, 500V	
C504	ECJ2VB1H681K	C 680PF, K, 50V	
C506	F1A2H1000002	C 10PF, 500V	
C511	ECA1VM101B	E 100UF, 35V	
C513	ECKW3D331JBP	C 330PF, J, 2KV	
C514	ECA1EM102B	E 1000UF, 25V	
C515	F1B2H331A025	C 330PF, 500V	
C516	ECA1EM102B	E 1000UF, 25V	
C519	F2A2C330A020	E 33UF, 160V	
C520	ECA0JM221B	E 220UF, 6.3V	
C552	ECA2EM100B	E 10UF, 250V	
C555	F1B2H471A025	C 470PF, 500V	
C558	ECA2CMR47B	E 0.47UF, 160V	
C559	ECWH16752JVB	P 7500PF,J,1.6KV	
C560	ECQM4223JZ	P 0.022UF, J,400V	
C561	ECKW3D221JBR	C 220PF, J, 2KV	
C562	ERD25T0V	C 0OHM, 1/4W	
C563	F0C2E3040001	P 0.3UF, 250V	
C565	ECQP1H183JZ	P 0.018UF, J, 50V	
C566	ECQM4472JZ	P 4700PF, J,400V	
C567	ECQM4123JZ	P 0.012UF, J,400V	
C568	ECKW3D821JBR	C 820PF, J, 2KV	
C570	ECJ2VC1H330J	C 33PF, J, 50V	
C580	ECA1HM220B	E 22UF, 50V	
C581	ECQV1H105JM	P 1UF, J, 50V	
C601	ECEA1CKA101	E 100UF, 16V	
C602	ECUX1H104KBX	C 0.1UF, K, 50V	
C603	ECJ2VB1H472K	C 4700PF, K, 50V	
C604	ECQV1H224JL	P 0.22UF, J, 50V	
C605	ECQV1H224JL	P 0.22UF, J, 50V	
C606	ECJ2VC1H222J	C 2200PF, J, 50V	
C607	ECEA1HKA010	E 1UF, 50V	
C608	ECA1HM100B	E 10UF, 50V	

Ref. No.	Part No.	Part Name & Description	Remarks
C609	ECUX1H104KBX	C 0.1UF, K, 50V	
C610	ECJ2VB1H103J	C 0.01UF, 50V	
C611	ECEA1HKAR22	E 0.22UF, 50V	
C612	ECJ2VB1H472K	C 4700PF, K, 50V	
C613	ECJ2VB1H472K	C 4700PF, K, 50V	
D1131	MTZJ5.6C	ZENER DIODE	
D1132	MTZJ5.6A	ZENER DIODE	
D1140	MTZJ5.6B	ZENER DIODE	
D1151	B3AGA0000092	DIODE	
D120	MA858	DIODE	
D2380	MA152KTX	DIODE	
D2381	MA152KTX	DIODE	
D2382	MA152KTX	DIODE	
D354	MA152KTX	DIODE	
D355	MA152KTX	DIODE	
D356	MA152KTX	DIODE	
D360	ERA22-04	DIODE	
D361	ERA22-04	DIODE	
D362	ERA22-04	DIODE	
D363	MA152KTX	DIODE	
D365	MTZJ10C	ZENER DIODE	
D375	MA152KTX	DIODE	
D402	B0HAHM000008	DIODE	
D511	MA4108J	DIODE	
D512	MA171	DIODE	
D513	B0HAJP000015	DIODE	
D515	B0HAJP000015	DIODE	
D520	MA152KTX	DIODE	
D551	MA3047HTX	DIODE	
D552	B0HAJP000015	DIODE	
D555	MA152KTX	DIODE	
D556	ERB06-15	DIODE	
D557	B0HAMQ000001	DIODE	
D558	MA185	DIODE	
D580	MTZJ33B	ZENER DIODE	
D581	MA152KTX	DIODE	
D582	MA152KTX	DIODE	
D583	MA3X152E0L	DIODE	
D584	MAZ30560HL	DIODE	
D585	MTZJ3.9A	ZENER DIODE	
D586	B0ACCK000005	DIODE	
D630	MAZ30560HL	DIODE	
D801	ERZV10D621CS	VARISTOR	⚠
D803	D4SB80	DIODE	
D804	TAP4GA0005	POSISTOR	⚠
D810	B0EAKT000018	DIODE	
D817	AG01Z	DIODE	
D820	MAZ20820A0LS	DIODE	
D821	MAZ20750A0LS	DIODE	
D823	AG01Z	DIODE	
D824	AG01Z	DIODE	
D825	B0BA6R100003	DIODE	
D830	AG01Z	DIODE	

Ref. No.	Part No.	Part Name & Description	Remarks
D831	B0BA02400029	ZENER DIODE	
D853	RN1ZLF-A1	DIODE	
D854	FMGG2CSLF665	DIODE	
D855	FMLG12S	DIODE	
D856	MTZJ7.5C	ZENER DIODE	
D860	PC123F2	DIODE	
D862	MTZJ2.0B	ZENER DIODE	
D863	AG01Z	DIODE	
D865	MTZJ3.6A	ZENER DIODE	
D870	AG01Z	DIODE	
D871	AG01Z	DIODE	
	INTEGRATED CIRCUITS		
IC1103	TVR4GAS232	EEPROM IC	
IC1104	B3RAD0000012	REMOTE RECEIVER IC	
IC1201	PQ1R33	LINEAR IC	
IC2301	AN7523N	IC	
IC3151	C1BB00000712	IC	
IC351	TDA6107JF/N3	IC	
Q850	B1BCCM000002	TRANSISTOR	
Q852	B1ABCE000005	TRANSISTOR	
Q857	2SC54190RA	TRANSISTOR	
Q870	B1ABCE000005	TRANSISTOR	
Q871	B1ABCE000005	TRANSISTOR	
	RESISTORS		
R003	ERJ6GEYJ100	M 10OHM,J,1/10W	
R004	ERG3FJ183H	M 18KOHM,J, 3W	
R006	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R007	ERJ6GEYJ302	M 3KOHM,J,1/10W	
R008	ERJ6GEYJ681	M 680OHM,J,1/10W	
R011	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R012	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R021	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R022	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R1016	ERJ6ENF1651	M1.65KOHM, 1/10W	
R1017	ERJ6ENF2151	M2.15KOHM, 1/10W	
R1018	ERJ6ENF3091	M3.09KOHM, 1/10W	
R1019	ERJ6ENF4421	M4.42KOHM, 1/10W	
R1020	ERJ6ENF7501	M 7.5KOHM, 1/10W	
R1021	ERJ6ENF1871	M1.87KOHM, 1/10W	
R1057	ERJ6GEYJ271	M 270OHM,J,1/10W	
R1058	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R1059	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R1060	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R1104	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1105	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1106	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1108	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1109	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1110	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1111	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R1112	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1113	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R1114	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1116	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1120	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R1122	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	
R1123	ERJ6GEYJ112	M 1.1KOHM,J,1/10W	
R1124	ERJ6GEY0R00	M 0OHM,J,1/10W	
R1125	ERJ6GEYJ331	M 330OHM,J,1/10W	
R1130	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1131	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1132	ERJ6GEYJ101	M 100OHM,J,1/10W	
R1133	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	
R1140	ERJ6ENF1002	M 10KOHM, 1/10W	
R1141	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	
R1142	ERJ6GEYJ100	M 10OHM,J,1/10W	
R116	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R117	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	
R118	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R119	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R120	ERJ6GEYJ680	M 68OHM,J,1/10W	
R121	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R122	ERJ6GEYJ470	M 47OHM,J,1/10W	
R123	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R124	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R126	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R136	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R137	ERJ6GEYJ683	M 68KOHM,J,1/10W	
R138	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R139	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R145	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R150	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R151	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R182	ERJ6GEYJ221	M 220OHM,J,1/10W	
R185	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R555	ERQ14AJ2R0P	F 2.0OHM, J,1/4W	
R556	ER050CKF5603	M 560KOHM,F, 1/2W	
R557	ER050CKF1743	M 174KOHM,F, 1/2W	
R558	ERDS2TJ223	C 22KOHM,J, 1/4W	
R559	ERQ1CJP2R2S	M 2.2OHM,J, 1W	
R560	ERG1SJ102E	M 1KOHM,J, 1W	
R580	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R581	ERJ6GEYJ183	M 18KOHM,J,1/10W	
R582	ERJ6GEYJ154	M 150KOHM,J,1/10W	
R583	ERJ6GEYJ274	M 270KOHM,J,1/10W	
R584	ERJ6GEYJ563	M 56KOHM,J,1/10W	
R585	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R586	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R587	ERJ6GEYJ823	M 82KOHM,J,1/10W	
R588	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R589	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R590	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R591	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R592	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	
R593	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R594	ERJ6GEYJ104	M 100KOHM,J,1/10W	
R601	ERJ6GEYJ153	M 15KOHM,J,1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R603	ERJ6GEYJ393	M 39KOHM,J,1/10W	
R604	ERJ6GEYJ101	M 100OHM,J,1/10W	
R605	ERJ6GEYJ101	M 100OHM,J,1/10W	
R606	ERJ6GEYJ101	M 100OHM,J,1/10W	
R607	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R608	ERJ6GEYJ273	M 27KOHM,J,1/10W	
R609	ERJ6GEYJ333	M 33KOHM,J,1/10W	
R612	ERJ6GEYJ102	M 1KOHM,J,1/10W	
R614	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	
R617	ERJ6GEYJ391	M 390OHM,J,1/10W	
R619	ERJ6GEYJ121	M 120OHM,J,1/10W	
R620	ERJ6GEYJ121	M 120OHM,J,1/10W	
R623	ERJ6GEYJ331	M 330OHM,J,1/10W	
R633	ERJ6GEYJ470	M 47OHM,J,1/10W	
R634	ERJ6GEYJ750	M 75OHM, 1/10W	
R640	ERJ6GEYJ822	M 8.2KOHM,J,1/10W	
R672	ERJ6GEYJ181	M 180OHM,J,1/10W	
R686	ERJ6GEYJ470	M 47OHM,J,1/10W	
R687	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R688	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R689	ERJ6GEYJ750	M 75OHM, 1/10W	
R801	ERF7ZK2R2	W 2.2OHM, 7W	⚠
R810	ERG2FJ470	M 47OHM,J, 2W	
R811	ERG2FJ104H	M 100KOHM,J, 2W	
R817	ERDS1TJ100	C 10OHM,J, 1/2W	
R818	ERG2FJ683H	M 68KOHM,J, 2W	
R820	ERX12SJR39E	M 0.39OHM,J, 1/2W	
R821	ERX12SJR47E	M 0.47OHM,J, 1/2W	
R824	ERDS2TJ561	C 560OHM,J, 1/4W	
R825	ERDS2TJ102	C 1KOHM,J, 1/4W	
R830	ERDS2TJ121	C 120OHM,J, 1/4W	
R831	ERDS2TJ272	C 2.7KOHM,J, 1/4W	
R832	ERDS2TJ473	C 47KOHM,J, 1/4W	
R840	ERD75TAJ825	C 8.2MOHM,J, 3/4W	
R850	ERG3SJ470	M 47OHM,J, 2W	
R852	ERDS2TJ272	C 2.7KOHM,J, 1/4W	
R861	ERDS1TJ221	C 220OHM,J, 1/2W	
R864	ERJ6GEYJ103	M 10KOHM,J,1/10W	
R866	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
R867	D0AE362JA046	C 3.6KOHM,J, 1/4W	
R868	ERDS1TJ471	C 470OHM,J, 1/2W	
R871	ERDS1TJ103	C 10KOHM,J, 1/2W	
R872	ERJ6GEYJ272	M 2.7KOHM,J,1/10W	
R873	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	
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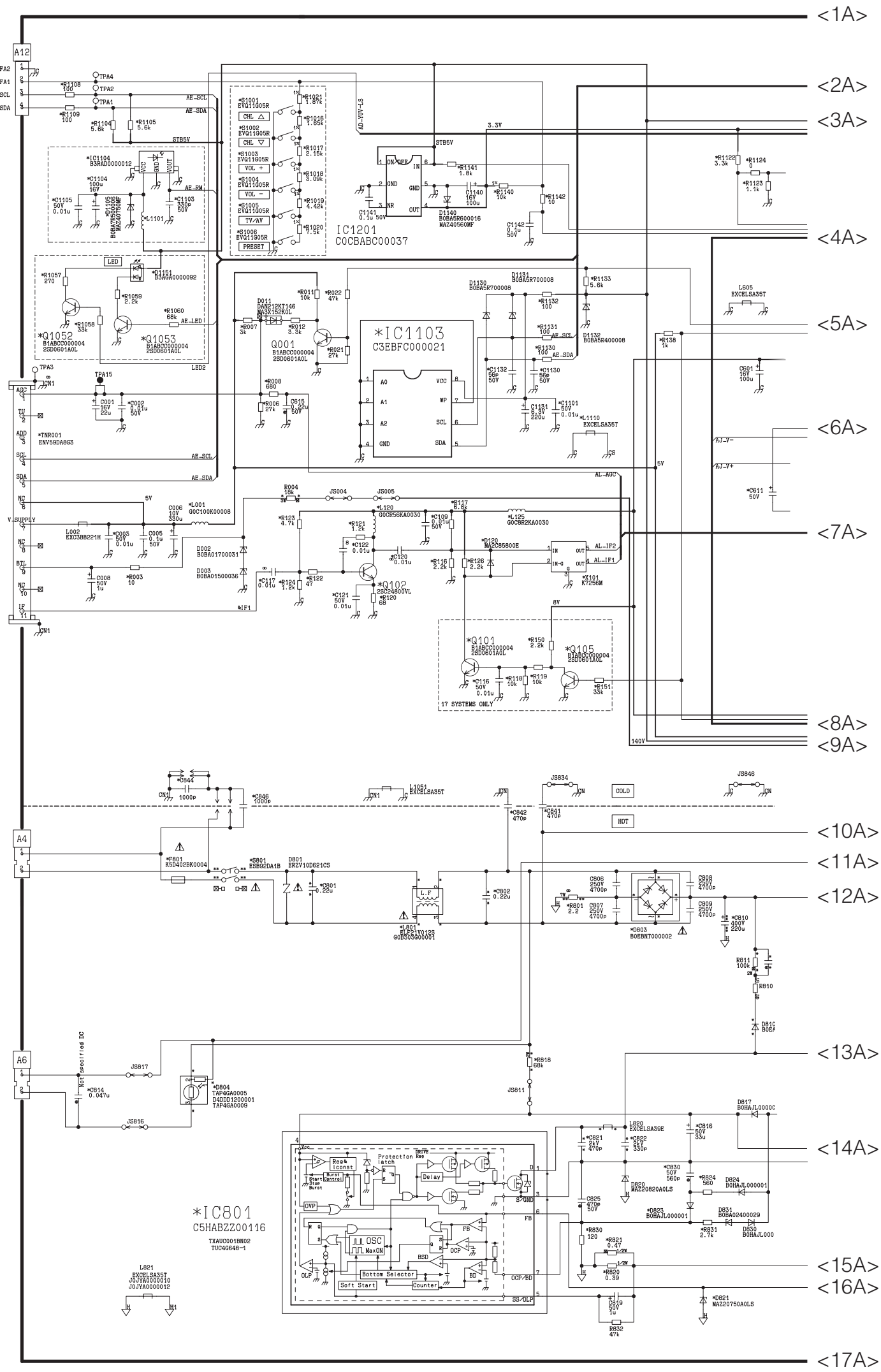
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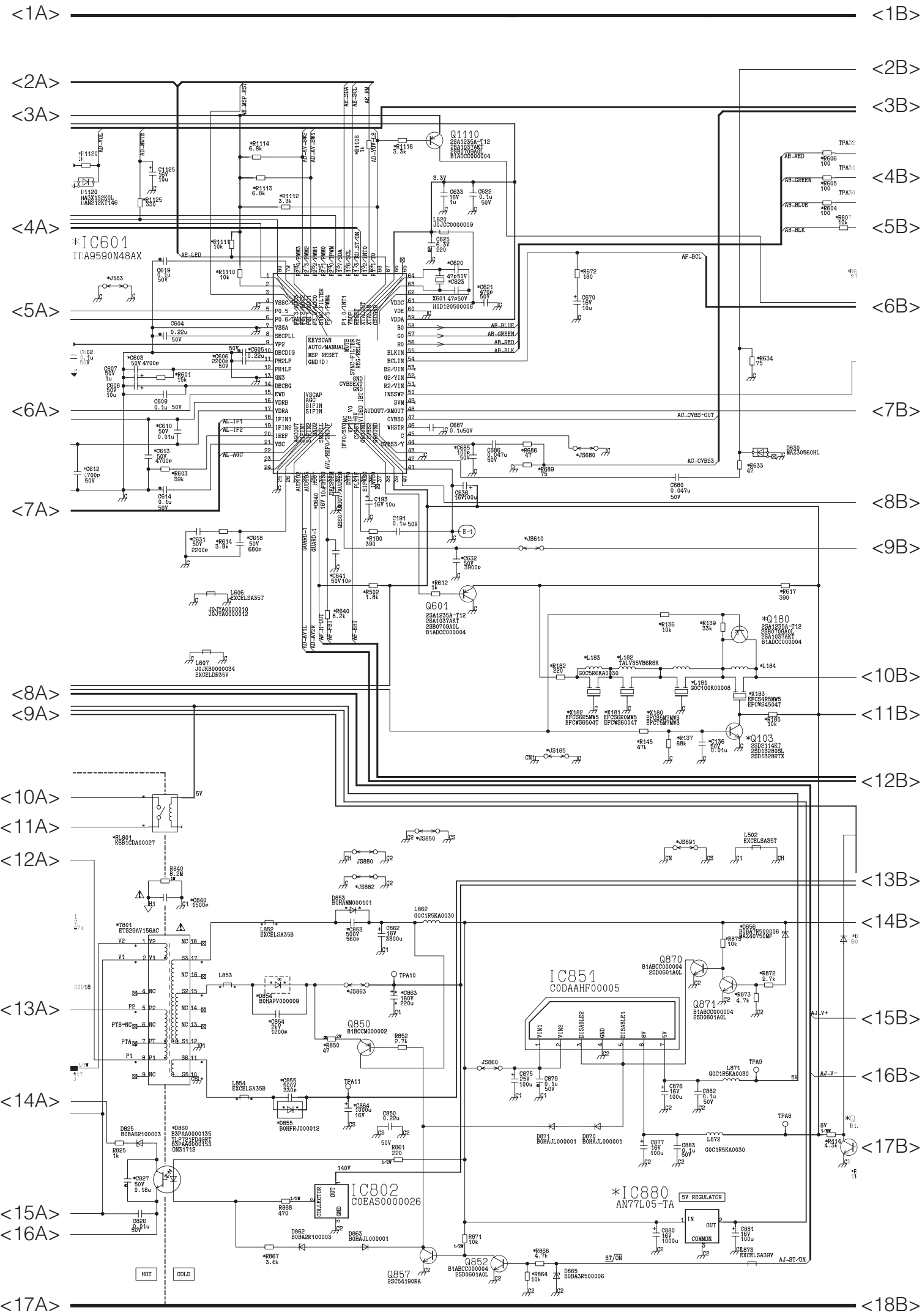
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AB-GREEN
AB-BLUE
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*R840 8.2M 1/2W
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*R850 47 2W
*R852 2.7k
*R860 1k
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*R868 470 1/2W
*R867 3.6k
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*C827 50V 0.18u
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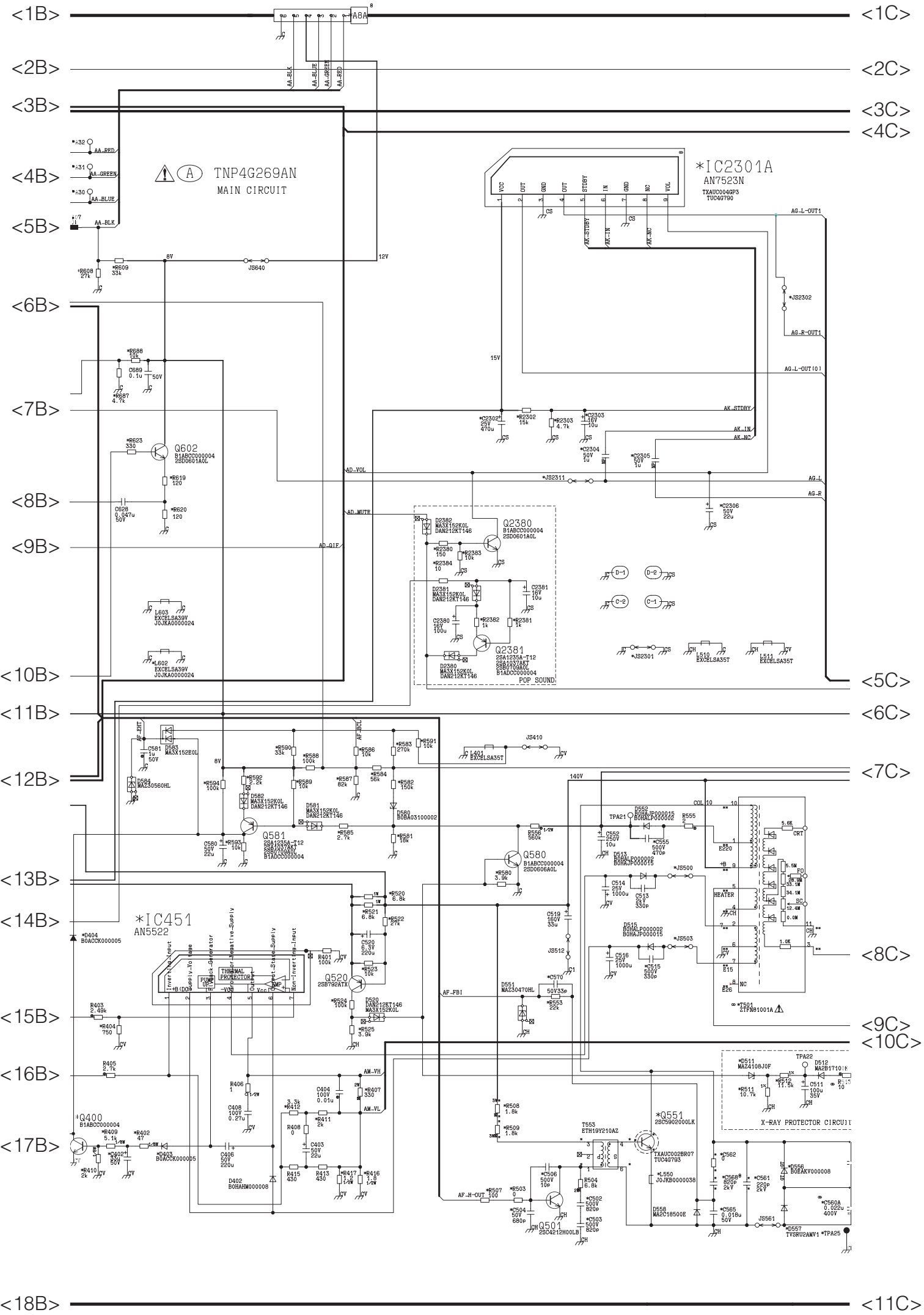
*C854 2kV 1200p
*C855 500V 330p
*C853 500V 560p
*C862 16V 3300u
*C840 1500p


TNP4G269AN
MAIN CIRCUIT
*IC2301A
AN7523N
TXAUC004GP3
TUC4G790
*IC451
AN5522
*Q551
2SC5902000LK
*Q400
B1ABCC000004
Q602
B1ABCC000004
2SD0601A0L
Q2380
B1ABCC000004
2SD0601A0L
Q2381
2SA1235A-T12
2SA1037AK7
2SB0709A0L
B1ADCC000004
Q581
2SA1235A-T12
2SA1037AK7
2SB0709A0L
B1ADCC000004
Q580
B1ABCC000004
2SD0606A0L
Q520
2SB792ATX
Q501
2SC4212H00LB
POP SOUND
X-RAY PROTECTOR CIRCUIT
AA-BLK
AA-BLUE
AA-GREEN
AA-RED
AG-L-OUT1
AG-R-OUT1
AG-L-OUT(0)
AK-STDBY
AK-IN
AK-NC
AG-L
AG-R
AD-VOL
AD-MUTE
AD-QIF
AF-EHT
AF-BCL
AF-FBI
AF-H-OUT
AM-VH
AM-VL
JS2302
JS2311
JS2301
JS640
JS410
JS500
JS503
JS512
JS561
L603
EXCELSA39Y
J0JKA0000024
L602
EXCELSA39Y
J0JKA0000024
L401
EXCELSA35T
L510
EXCELSA35T
L511
EXCELSA35T
T553
ETH19Y210AZ
*T501
2TFN81001A
D402
B0HAHM000008
D404
B0ACCK000005
D403
B0ACCK000005
D557
TVSRU2AMV1 *TPA25
D558
MA2C16500E
D552
B0HAJP000015
B0HALP000002
D513
B0HALP000002
B0HAJP000015
D515
B0HALP000002
B0HAJP000015
D551
MAZ30470HL
D511
MA2408J0F
D512
MA2B17100E
D520
DAN212KT146
MA3X152K0L
D581
MA3X152K0L
DAN212KT146
D582
MA3X152K0L
DAN212KT146
D583
MA3X152E0L
D584
MA230560HL
D580
B0BA03100002
D2382
MA3X152K0L
DAN212KT146
D2381
MA3X152K0L
DAN212KT146
D2380
MA3X152K0L
DAN212KT146
TPA21
TPA22
CRT
FO
SC
HEATER
X-RAY PROTECTOR CIRCUIT
8V
12V
15V
140V
*JS2311
*JS2301
*JS500
*JS503
*JS512
*JS561
*JS2302
JS640
JS410
*R608 27k
*R609 33k
*R688 10k
*R687 4.7k
*R623 330
*R619 120
*R620 120
C689 0.1u 50V
C628 0.047u 50V
*R590 33k
*R588 100k
*R586 10k
*R583 270k
*R591 10k
*R594 100k
*R592 2.2k
*R589 10k
*R587 82k
*R584 56k
*R582 150k
*R593 10k
*R585 2.7k
*R581 18k
C581 1u 50V
C580 50V 22u
*R556 560k
*R580 3.9k
*R520 6.8k
*R521 6.8k
*R522 27k
*R523 10k
*R524 100k
*R525 3.9k
*R553 22k
*R570
C519 160V 33u
C520 6.3V 220u
C552 250V 10u
*C555 500V 470p
C513 2kV 330p
C514 25V 1000u
C516 25V 1000u
*C515 500V 330p
*R555
*R401 100k
*R403 2.49k
*R404 750
*R405 2.7k
*R406 1
C408 100V 0.27u
*R407 330
C404 100V 0.01u
*R412 3.3k
*R411 2k
R408 0
C403 50V 22u
C406 50V 220u
*R409 5.1k
*R402 47
C402 50V
*R410 2k
R415 430
R413 430
*R417 1.2
*R416 1.8
*R508 1.8k
*R509 1.8k
*R507 100
*R503 0
*R504 6.8k
*R502 500V 820p
*R503 500V 820p
*R504 50V 680p
*C506 500V 10p
*C562 0
*C568 820p 2kV
*C561 220p 2kV
*C565 0.018u 50V
*C560A 0.022u 400V
*R556 B0EAKV000008
*D556
*D511 10.7k
*R512 11.5k
*R511
C511 100u 35V
C2302 25V 470u
*R2302 15k
*R2303 4.7k
C2303 16V 10u
*C2304 50V 1u
*C2305 50V 1u
*C2306 50V 22u
*R2380 150
*R2383 10k
*R2384 10
C2381 16V 10u
C2380 16V 100u
*R2382 1k
*R2381 1k
L1 EXCELSA35T
CRT
FO
SC
HEATER
X-RAY PROTECTOR CIRCUIT
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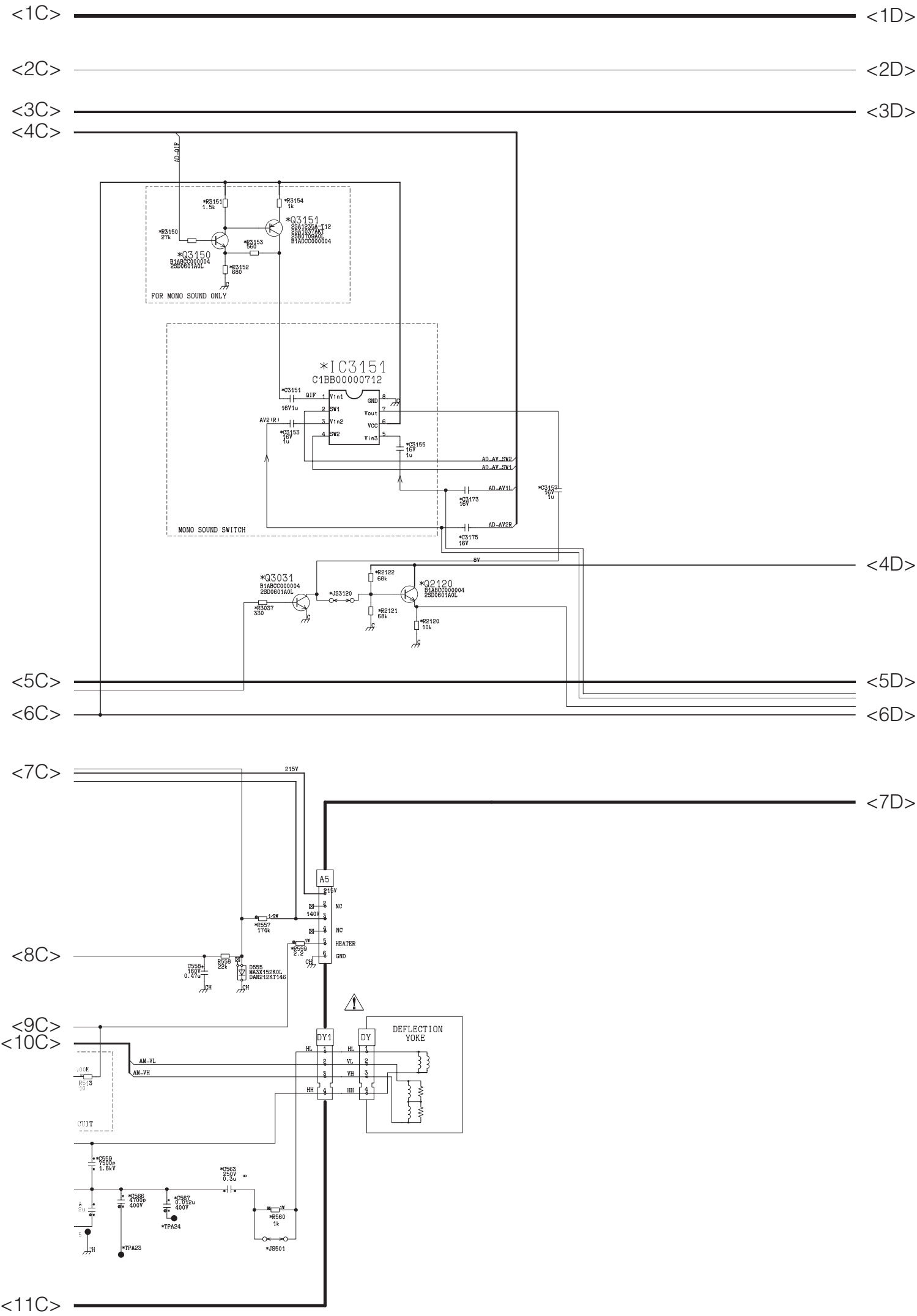
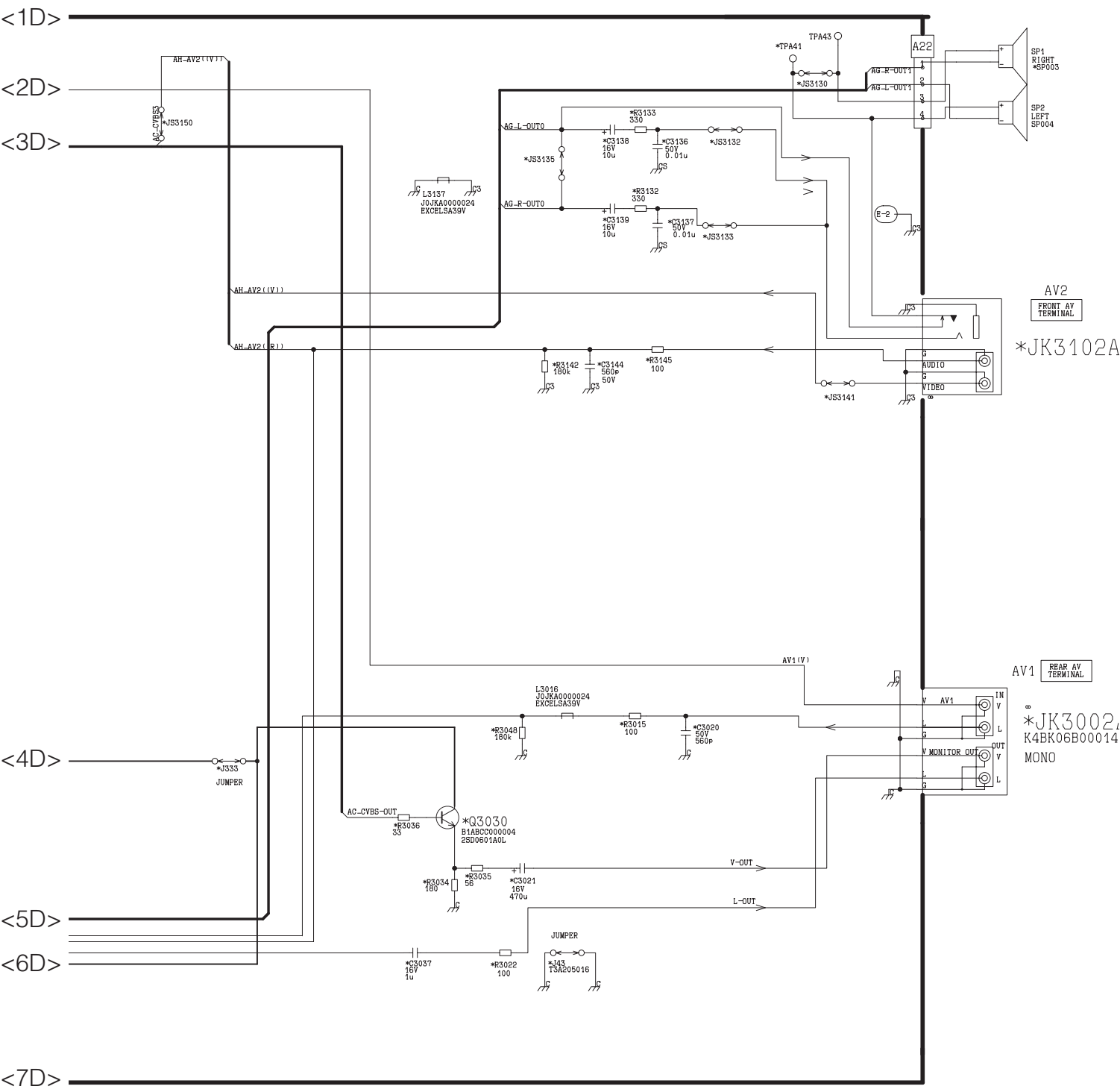

AD_QIF
*R3151 1.5k
*R3154 1k
*Q3151
2SA1235A-T12
2SA1037AK
2SB0709A0L
B1ADCC000004
*R3150 27k
*R3153 560
*Q3150
B1ABCC000004
2SD0601A0L
*R3152 680
FOR MONO SOUND ONLY
*IC3151
C1BB00000712
*C3151 16V 1u
QIF
Vin1
SW1
Vin2
SW2
GND
Vout
VCC
Vin3
AV2(R)
*C3153 16V 1u
*C3155 16V 1u
AD_AV_SW2
AD_AV_SW1
AD_AV1L
*C3157 16V 1u
*C3173 16V
AD_AV2R
*C3175 16V
MONO SOUND SWITCH
8V
*Q3031
B1ABCC000004
2SD0601A0L
*R3037 330
*JS3120
*R2122 68k
*Q2120
B1ABCC000004
2SD0601A0L
*R2121 68k
*R2120 10k
215V
A5
NC
140V
NC
HEATER
GND
*R557 1/2W 174k
*R559 1W 2.2
C558 160V 0.47u
R556 22k
D555
MA3X152K0L
DAN212KT146
DY1
DY
DEFLECTION YOKE
HL
VL
VH
HH
AM-VL
AM-VH
J008
R513 10
CUIT
*C559 7500p 1.6kV
*C563 250V 0.3u
*C566 4700p 400V
*C567 0.012u 400V
*TPA24
*TPA23
*R560 1W 1k
*JS501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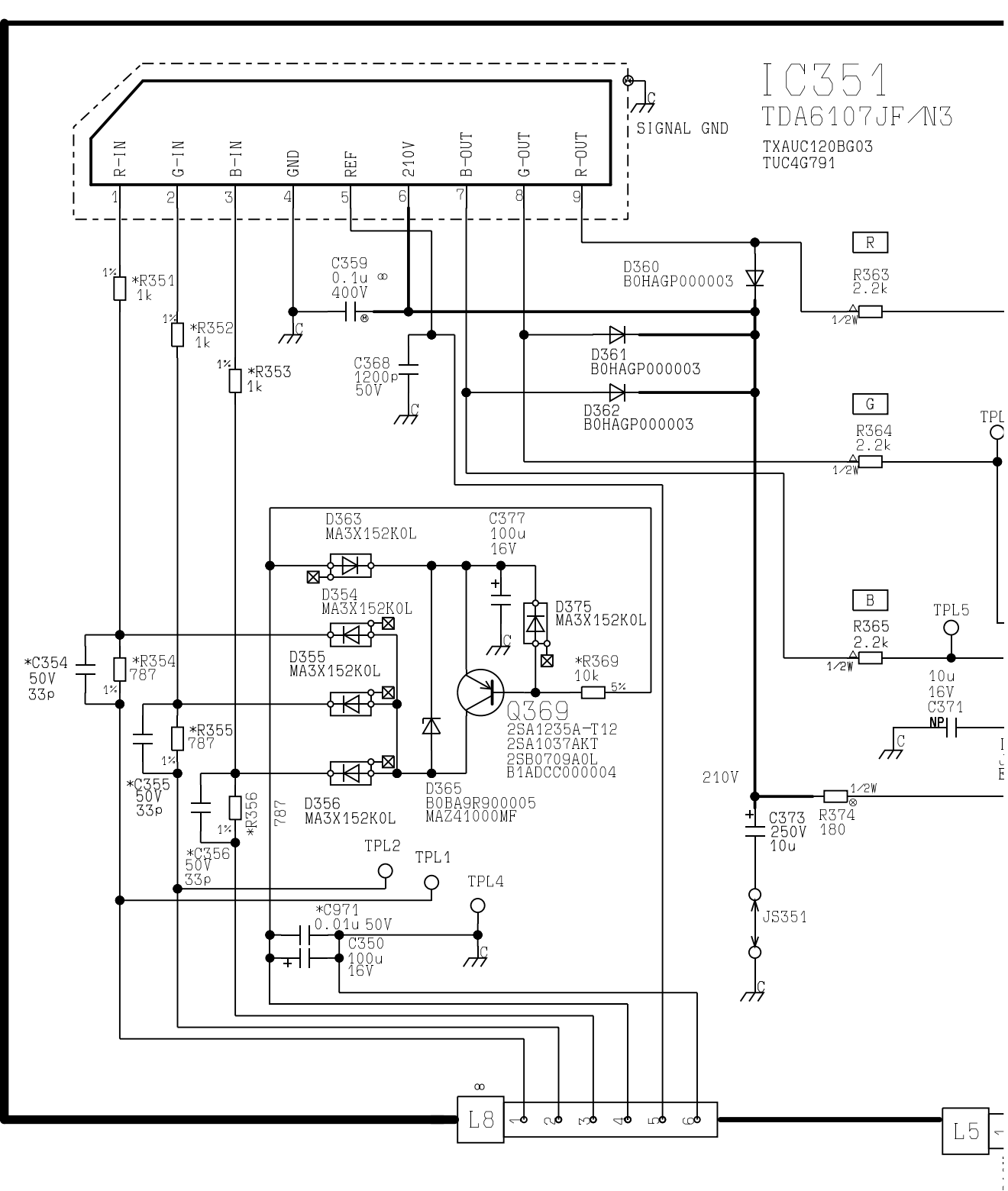
<7D>
AH_AV2((V))
AC_CVBS3
*JS3150
TPA43
*TPA41
*JS3130
A22
AG_R_OUT1
AG_L_OUT1
SP1
RIGHT
*SP003
SP2
LEFT
SP004
AG_L_OUT0
*R3133
330
*C3138
16V
10u
*C3136
50V
0.01u
*JS3132
*JS3135
L3137
J0JKA0000024
EXCELSA39V
AG_R_OUT0
*R3132
330
*C3139
16V
10u
*C3137
50V
0.01u
*JS3133
E-2
AV2
FRONT AV
TERMINAL
*JK3102A
AH_AV2((R))
*R3142
180k
*C3144
560p
50V
*R3145
100
AUDIO
VIDEO
*JS3141
AV1(V)
L3016
J0JKA0000024
EXCELSA39V
*R3048
180k
*R3015
100
*C3020
50V
560p
AV1
REAR AV
TERMINAL
*JK3002A
K4BK06B00014
MONO
IN
OUT
MONITOR OUT
*J333
JUMPER
AC_CVBS_OUT
*R3036
33
*Q3030
B1ABCC000004
2SD0601A0L
V_OUT
*R3034
180
*R3035
56
*C3021
16V
470u
L_OUT
JUMPER
*C3037
16V
1u
*R3022
100
*J43
T3AZ05016


IC351
TDA6107JF/N3
TXAUC120BG03
TUC4G791
R-IN
G-IN
B-IN
GND
REF
210V
B-OUT
G-OUT
R-OUT
SIGNAL GND
*R351 1k
*R352 1k
*R353 1k
C359 0.1u 400V
C368 1200p 50V
D360 B0HAGP000003
D361 B0HAGP000003
D362 B0HAGP000003
R363 2.2k 1/2W
R364 2.2k 1/2W
R365 2.2k 1/2W
D363 MA3X152K0L
D354 MA3X152K0L
D355 MA3X152K0L
D356 MA3X152K0L
C377 100u 16V
D375 MA3X152K0L
*R369 10k
Q369
2SA1235A-T12
2SA1037AKT
2SB0709A0L
B1ADCC000004
D365 B0BA9R900005 MAZ41000MF
*C354 50V 33p
*R354 787
*R355 787
*C355 50V 33p
*R356 787
*C356 50V 33p
TPL2
TPL1
TPL4
TPL5
*C971 0.01u 50V
C350 100u 16V
10u 16V C371 NP
210V
C373 250V 10u
R374 180
JS351
L8
L5
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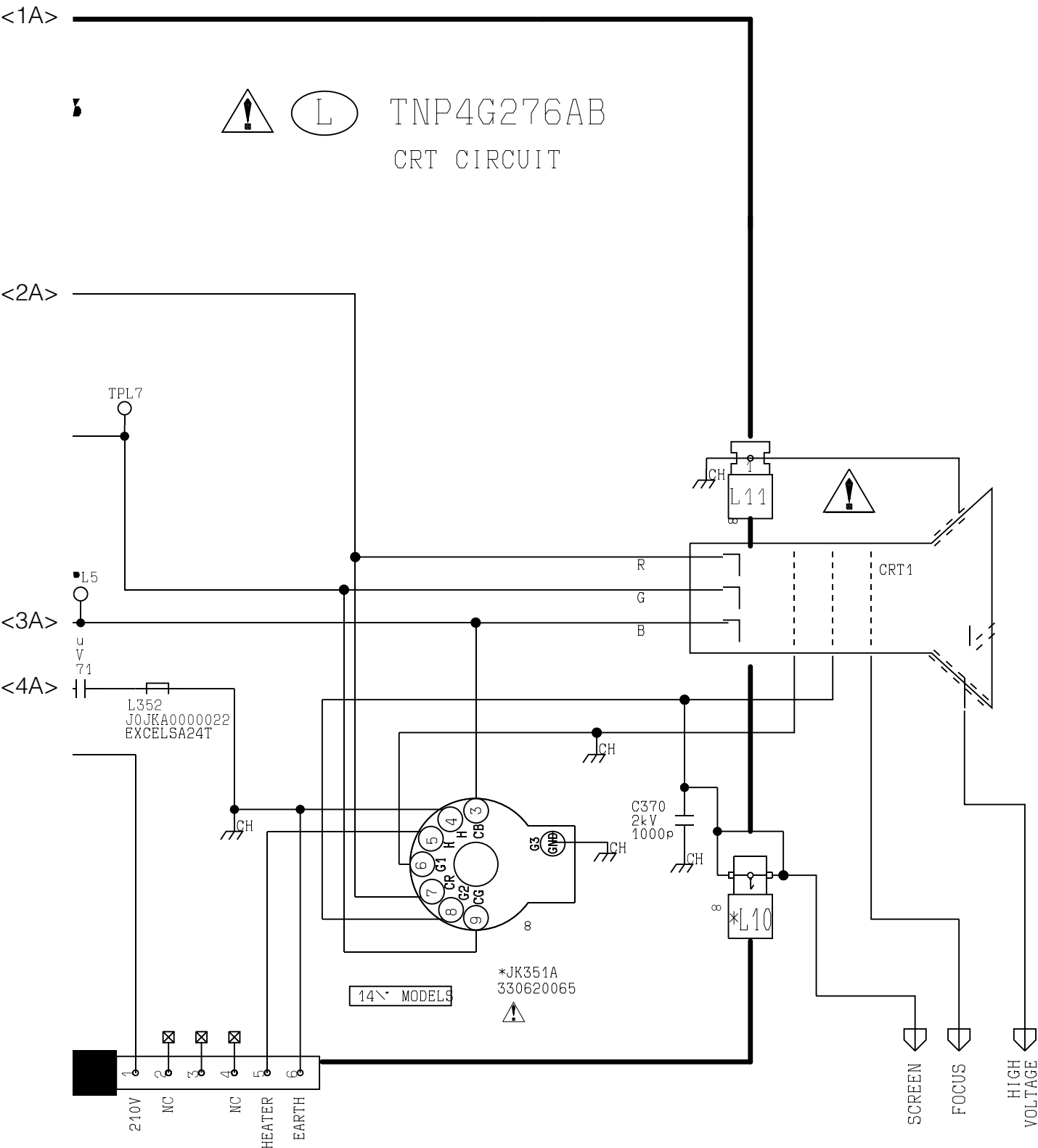
TNP4G276AB
CRT CIRCUIT
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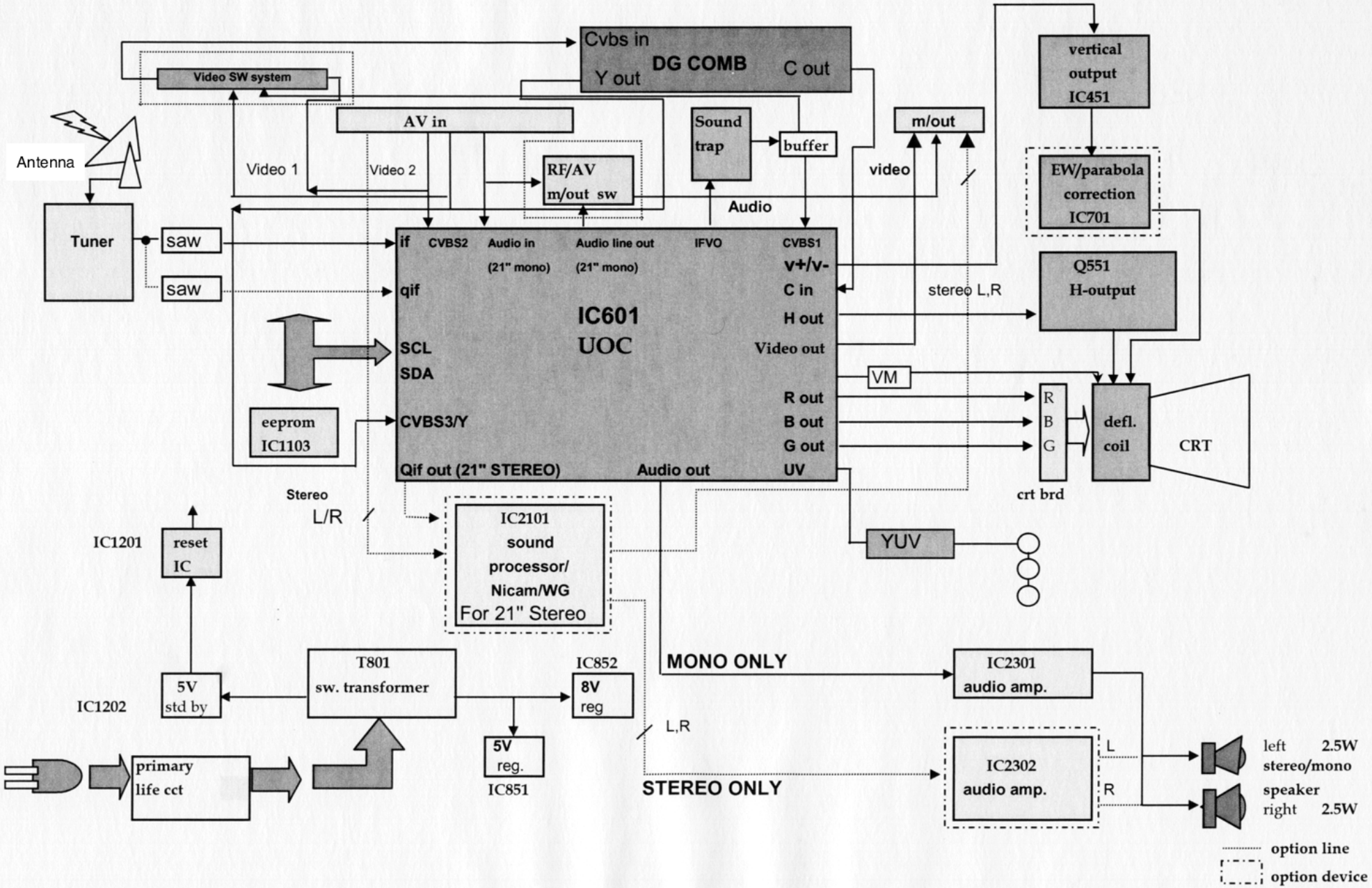
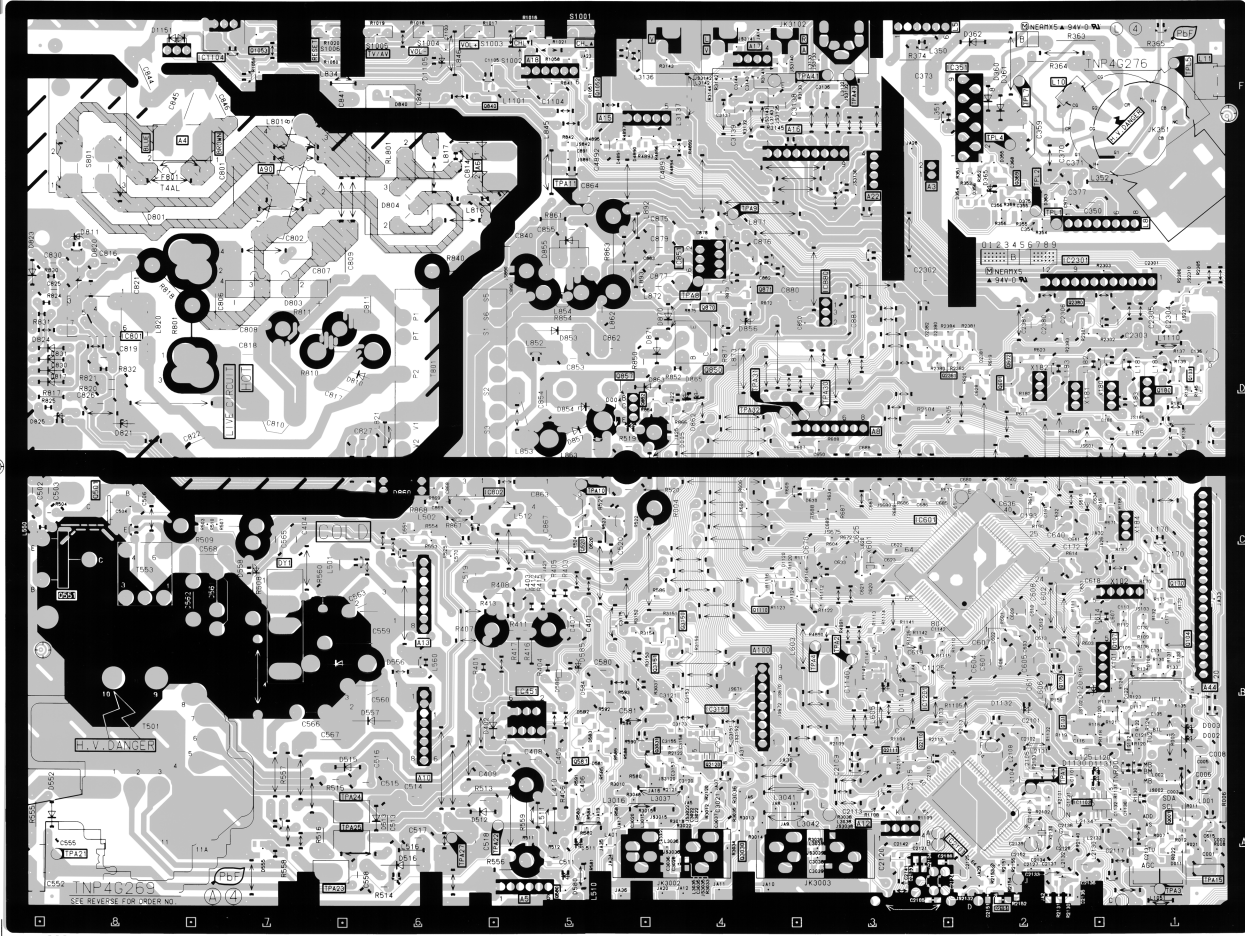
TPL7
L5
V71
L352
J0JKA0000022
EXCELSA24T
CH
L11
CRT1
R
G
B
C370
2kV
1000p
*L10
*JK351A
330620065
14" MODELS
CB
H
G1
CR
G2
CG
G3
GND
210V
NC
NC
HEATER
EARTH
SCREEN
FOCUS
HIGH VOLTAGE


Cvbs in
DG COMB
Y out
C out
Video SW system
AV in
Antenna
Video 1
Video 2
RF/AV
m/out sw
Sound
trap
buffer
m/out
video
Audio
vertical
output
IC451
EW/parabola
correction
IC701
Tuner
saw
saw
if
CVBS2
Audio in
(21" mono)
Audio line out
(21" mono)
IFVO
CVBS1
v+/v-
qif
C in
IC601
UOC
H out
Video out
SCL
SDA
CVBS3/Y
R out
B out
G out
UV
Qif out (21" STEREO)
Audio out
stereo L,R
Q551
H-output
VM
R
B
G
defl.
coil
CRT
crt brd
eeprom
IC1103
Stereo
L/R
IC2101
sound
processor/
Nicam/WG
For 21" Stereo
YUV
IC1201
reset
IC
IC1202
5V
std by
T801
sw. transformer
IC852
8V
reg
5V
reg.
IC851
primary
life cct
MONO ONLY
IC2301
audio amp.
L,R
STEREO ONLY
IC2302
audio amp.
L
R
left 2.5W
stereo/mono
speaker
right 2.5W
option line
option device


COLD
H.V. DANGER
TNP4G269
SEE REVERSE FOR ORDER NO.
TNP4G275
MINERVA5 ▲ 94V-0
0 1 2 3 4 5 6 7 8 9